

B 22.10.83



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 38] नई दिल्ली, शनिवार, सितम्बर 17, 1983 (भाद्रपद 26, 1905)  
No. 38] NEW DELHI, SATURDAY, SEPTEMBER 17, 1983 (BHADRA 26, 1905)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है, जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
(Notifications and Notices issued by the Patent Office relating to Patents and Designs)

### THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 17th September, 1983

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office, Branch,  
Todi Estates, III Floor,  
Lower Parcel (West),  
Bombay-400013.

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

1—247GI/83

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office).  
214, Acharya Jagadish Bose Road,  
Calcutta-700 017.

Rest of India.

Telegraphic address "PATFNTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees* :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in cre-cent brackets are the dates claimed under Section 135 of the Act.

11th August, 1983

- 996/Cal/83. The Dow Chemical Company. Process for preparing cellulose derivatives with desired solution viscosities.
- 997/Cal/83. Diamond Shamrock Corporation. Activation of Biocompatible polymers with biologicals whose binding complements are pathological effectors.

12th August, 1983

- 998/Cal/83. 1. Zabzanska Fabryka Maszyn Gorniczych 'Powen' 2. Centrum Mechanizacji Gornictwa 'Komag'. Dehydrating Centrifugal sieve.
- 999/Cal/83. Combustion Engineering, Inc. Vane wheel arrangement with nihad wear plates.
- 1000/Cal/83. Carrier Corporation. A compressor and a method of assembling a compressor.
- 1001/Cal/83. Voest-Alpine Aktiengesellschaft. Arrangement for supplying a pressurized liquid to a rotating machine part.
- 1002/Cal/83. Ruhrgas Aktiengesellschaft. Method of replacing the rolls of a continuous roller hearth furnace and furnace for the practice of the method.
- 1003/Cal/83. Nederlandse centrale organisatie Voor Toegespastnatuurwetenschappelijk Onderzoek. System for the use of gas as secondary fuel in diesel engines.
- 1004/Cal/83. Edco Holdings Limited. Thermochemical energy storage. (12th August, 1982).

16th August, 1983

- 1005/Cal/83. Westinghouse Electric Corporation. A method of preparing an oxide coating on a substrate. [Divisional date 27th July, 1979].
- 1006/Cal/83. Energy Cycle, Inc. Anaerobic Digester.
- 1007/Cal/83. Brown & Williamson Tobacco Corporation. Improvements relating to smoking article filters. (18th August, 1982).
- 1008/Cal/83. Michael Neil Glickman. Construction Block. (19th August, 1982).

17th August, 1983

- 1009/Cal/83. Combustion Engineering, Inc. System and method for firing coal having a significant mineral content.
- 1010/Cal/83. Envirotech Corporation. Rake Drive and lifting device for sedimentation apparatus.
- 1011/Cal/83. Hitachi, Ltd. Device for verifying the insulation to ground of a disconnecting switch when breaking a charging current.
- 1012/Cal/83. John Welsh. An alarm system for vehicles. [Divisional date 9th January, 1981].
- 1013/Cal/83. Ruhrgas Aktiengesellschaft. Method for the heat treatment of workpieces.

**APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, III FLOOR, KAROL BAGH, NEW DELHI-5**

11th July, 1983

- 470/Del/83. Biphase Energy Systems, Inc., "A method for producing power employing hot fluid". [Divisional date November 15, 1979].
- 471/Del/83. Imperial Chemical Industries PLC., "Polymerisation process". (July 29, 1982).

13th July, 1983

- 472/Del/83. S. P. Gupta, "An improved self closing spring loaded LPG cylinder valve".
- 473/Del/83. Sardar Surat Singh Badalis, "An improved cooking stove".

- 474/Del/83. Poclain Hydraulics, "A disc brake device provided with a brake release controlled by fluid pressure".
- 475/Del/83. Imperial Chemical Industries PLC., "Emulsion explosive composition". (July 21, 1982).

14th July, 1983

- 476/Del/83. Polytype AG., "Method and apparatus for the manufacture of a sandwich web".
- 477/Del/83. British Gas Corporation and Rubber and Plastics Research Association of Great Britain, "Apparatus for the heat treatment of materials". (July 17, 1982).

15th July, 1983

- 478/Del/83. Ciba-Geigy AG, "Vinylpyridine copolymers, a process for producing them, and their use as sulfonating agents".
- 479/Del/83. Societe D'Exploitation des Procédes marechal (SEPM). "A quick-make quick-break plug and socket connector".
- 480/Del/83. Societe d'Exploitation des Procédes Marechal (SEPM), "An electrical pressure contact with built-in opening and closing capability".

16th July, 1983

- 481/Del/83. Yogendra Nath Bhargava, "Semaphore indicator".
- 482/Del/83. Kapcompany General Limited, "A hood for use with a bio gas digester".
- 483/Del/83. Kapcompany General Limited, "A flow control device".
- 484/Del/83. Director, Central Pulp and Paper Research Institute, "A process for recovery of sodium hydroxide".
- 485/Del/83. Khosla Engineers, "A feed device".

18th July, 1983

- 486/Del/83. Mantosh Chandra, "Automatic control for automobile lights and dipper".
- 487/Del/83. G. D. Societa Per Azioni, "Device for dispensing viscous materials".
- 488/Del/83. Johnson Matthey Public Limited Company, "A bursting disc failure indicator".
- 489/Del/83. Imperial Chemical Industries PLC., "Pump and pump components". (August 25, 1982).
- 490/Del/83. Michel Bonnaval-Lamothe, "Process for eliminating plays from rocks and sedimentary environments".

19th July, 1983

- 491/Del/83. Dhawal K Patel, "A kerosene gas cooking range".
- 492/Del/83. Ford Aerospace & Communications corporation, "Digital pwpf three axis spacecraft attitude control".

- 493/Del/83. Institut Cerac S.A., "A method of driving the impeller of a liquid pump by means of a brushless A.C. motor; and a liquid pump for carrying out the method".

20th July, 1983

- 494/Del/83. Mark Schuman, Physicist, "Thermocompressor with pressure actuated heating chamber bypass".

21st July, 1983

- 495/Del/83. Sherritt Gordon Mines Limited, "Recovery of zinc from zinc-containing sulphidic material". (July 27, 1982).

22nd July, 1983

- 496/Del/83. Marc Alfred Chavannes, "Method and apparatus for manufacturing reinforced plastic sheet material and such material produced thereby".
- 497/Del/83. Card-o-Matic pty, ltd., "Axial air gap induction motor".

23rd July, 1983.

- 498/Del/83. Mohammed Sharkir Qidwai, "A pedestal fibre spinning machine".
- 499/Del/83. Oil & Natural Gas Commission, "A turbulence inducer and to a process for the preparation thereof".
- 500/Del/83. Kapcompany General Limited, "A solar collector system".
- 501/Del/83. Kapcompany General Limited, "A solar fluid heating system".
- 502/Del/83. Kapcompany General Limited, "A biogas digester System".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, LOWER PAREL WEST, BOMBAY-13

29th July 1983

- 230/Bom/83. Peico Electronics & Electricals Ltd. An improved pole plate forming the air-gap in the magnet system of a loudspeaker and a method of manufacturing the same.
- 231/Bom/83. Elpro International Ltd. Means for controlling switches of electrical or other power sources in a predetermined area.
- 232/Bom/83. Elpro International Ltd. Brake.
- 233/Bom/83. Chyuan-Jong Wu. Electronic music pace and distance counting shoe.
- 234/Bom/83. Vilas Ganesh Anikhindi. Making a thumous with a polyester film, razin and glass wool. The outer container being as usual.
- 235/Bom/83. Vilas Ganesh Anikhindi. The process of manufacturing mirror of any use made out of polyester film stretched on metal frame of any size and shape embeded or not embeded with any kind of outer frame with special clamping system.

1st August 1983

- 236/Bom/83. Chlorine Engineers Corp. Ltd. Bonding of cation exchange membrane. (Divisional to Patent Appln. 198/Bom/83).

2nd August 1983

- 237/Bom/83. Yogesh Rabindranath Tiwari. A toothbrush cum tongue scraper assembly.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

3rd August, 1983

- 167/Mas/83. Capt. J. K. Munshi & C. F. S. Munshi. A cylinder head for a four stroke internal combustion engine.
- 168/Mas/83. Mysore Snackfoods Limited. A process for the preparation of ketchup powder.

4th August, 1983

- 169/Mas/83. S. Venkataraman. A method of parking cars, taxis, autos, in any central parking area, public places, railway stations etc.

5th August, 1983

- 170/Mas/83. A. K. Ray & Ditamir Hycon Limited. A hydraulic tracer for a lathe.

8th August, 1983

- 171/Mas/83. Sree Chitra Tirunal Institute for Medical Sciences & Technology. A cardiomy reservoir for filtration and re-circulation of blood.

10th August, 1983

- 172/Mas/83. G. Venkatachalapathy. Displaced crank internal combustion on compression ignition engine.

ALTERATION OF DATE

151985 (950/Cal/81). Ante dated to 8th February, 1979.

151986 (953/Cal/81). Ante dated to 8th February, 1979.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS—32C.

151965.

Int. Cl. C 07 g 7/00.

"PROCESS FOR THE PREPARATION OF A NEW RNA-DEGRADING PROTEIN, RNAase SPL, FROM SEMINAL-PLASMA".

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India, an Indian Registered body incorporated under the Registration of Societies Act (Act XXI of 1860) and Max-Planck-Institut für Biophysikalische Chemie, Karl-Friedrich-Bonhoeffer Institut, Am Fassberg, D-3400 Goettingen-Nikolausberg, West Germany, an organisation formed and existing under the laws of West Germany.

Inventors: KARL HEINZ SCHEIT, ERGAM REDDY SHYAM PRASAD REDDY, TANGIRALA RAMAKRISHNA MURTI, MADHUSUDAN WAMAN PANDIT & PUSHPA MITRA BHARGAVA.

Application for patent No. 48/Del/79 filed on 25th January, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(6 Claims.)

A process for the preparation of a new RNA-degrading protein, RNAase SPL, from seminalplasma, for use in biochemical, biological and biomedical research, comprising separating the supernatant, which consists of seminalplasma, from mammalian semen, dialysing said supernatant against a buffer solution, such as herein described, at pH of 5.0, treating the dialysed liquid with an anion exchanger, such as herein described, treating the unadsorbed fraction obtained on said anion exchanger with a cation exchanger such as herein described, eluting the adsorbed material at the cation exchange step using buffer such as herein described and an ionic gradient such as herein described to obtain three to four fractions, the third fraction or both third and fourth fractions together as obtained on elution at the last step being dialysed and lyophilised in the manners such as herein described to obtain crude product, subjecting the crude product to chromatography by passing it through an affinity column consisting of either a nucleic acid or an unhydrolysable analogue of a substrate of RNAase SPL bound to an inert substance such as cellulose or agarose.

(Complete specification 11 pages. Drawing 2 sheets).

CLASS—146 C.D.I.

151966.

Int. Cl.: G 0 in 33/18.

"AN IMPROVED PORTABLE TURBIDIMETER FOR DETERMINING THE AMOUNT OF CHLORIDES AND SULPHATES IN WATER".

Applicant: The Director General, Cement Research Institute of India, M-10, South Extension Part-II, Ring Road, New Delhi-110049, India, an Indian National.

Inventors: HOSAGRAHAR CHANDRASEKHARIAH VISVESVARAYA, VARANASI VENKATA SUBBA RAO, MADDALI VENKATA RANGARAO, SUBHASH CHANDER AHLUWALIA.

Application for patent No. 161/Del/79 filed on 7th March, 1979.

Complete specification left on 7th March, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(6 Claims)

An improved portable turbidimeter for determining the amount of chlorides and sulphates in water at site comprising a housing having a first compartment for a source of electric power, a second compartment having an electric lamp adapted to be energised by the said source, a third compartment formed by a pair of parallel spaced partition walls having a cuvette for holding the water to be tested in front of the electric lamp, a slit or collimator provided in the front partition wall for allowing light from said electric lamp to pass therethrough, a photocell on the side of the cuvette remote from the lamp and aligned with the lamp and the cuvette and a microammeter connected to the photocell, said microammeter being disposed within a fourth compartment, the photocell being adapted to produce an electric current dependant on the turbidity of water and the microammeter being calibrated to indicate the amount of chlorides and sulphates in unit volume or a predetermined volume of the water under test in the cuvette.

(Provisional specification 4 pages).

(Complete specification 10 pages. Drawing 1 sheet).

CLASS—145E<sub>1</sub>.

151967.

Int. Cl. D 21 d 5/00.

"PRESSURIZED SCREENING APPARATUS FOR SCREENING A LIQUID SUSPENSION".

Applicant: INGERSOLL-RAND CANADA INC., a corporation of Canada having offices at 630 Dorchester Blvd. W. Montreal, Quebec H3B 1S6, Canada.

Inventor: DOUGLAS LEONARD GEOFFREY YOUNG.

Application for patent No. 4/Del/80 filed on 4th January, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(6 Claims)

A pressurised screening apparatus for screening a liquid suspension containing desirable fibre, undesirable bouyant contaminants, and denser contaminants, comprising: a fixed enclosing screen having an axial apertured section extending around its periphery and forming an accepts chamber; an accepts outlet communicating with the accepts chamber; a fixed wall surrounding the enclosing screen to form an axially extending annular channel defined by the outside of the screen and said wall; means for flowing the liquid suspension upwardly within the axially extending annular channel; a contaminant accumulator section above said channel, said contaminant accumulating section being adapted to entrap bouyant contaminants and denser contaminants.

(Complete specification 12 pages. Drawing 1 sheet).

CLASS—160A.D.

151968.

Int. Cl. B 62 C 3/00.

"A DEVICE FOR CONVERTING THE ANIMAL CAPTIVE ENERGY".

Applicant: Karnail Singh Grewal, alias Khushwant Singh "Khushdil", son of Dasaunda Singh of Kila Raipur, Dist. Ludhiana, Punjab State; Karanbir Singh Sandhu, son of Raghbir Singh of Rajinder Kuti, Raghbir Marg, New Patiala, Punjab State, and Rajinder Singh Grewal, son of Lachhman Singh Grewal, of 1392/Sector 33-C, Chandigarh, Union Territory.

Inventor: KARNAIL SINGH GREWAL.

Application for patent No. 252/Del/80 filed on 5th April, 1980.

Complete specification left on 6th July, 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(7 Claims)

A device for converting animal captive energy for driving a machine of the type hereinbefore defined comprising a structure having a hollow cone frustum shape and having a helix like circular track within its periphery, an adjustable weight adapted to be drawn by the animal on the said track, a supporting frame rigidly fitted in the hollow portion of the said hollow cone frustum at its small end, a mounting disc rigidly mounted in the said supporting frame with their centres coinciding, an axial shaft passing through the centre of the mounting disc at an angle to the said disc and fitted rigidly with it, the lower end of the said axial shaft being connected to the lugs of a driver wheel, a revolving circular fulcrum loosely mounted on the axial shaft below the said mounting disc and supported and guided on the flat upper surface of an annulus base plate, means being provided for transmitting the power developed at the said driver wheel to said machine.

(Complete specification 84 pages. Drawing 15 sheets).

CLASS—32C.

151969.

Int. Cl. C 07  $\pi$  7/00

"A PROCESS FOR THE PREPARATION OF A PHARMACOLOGICALLY ACTIVE PROTEINOUS MIXTURE FROM MAMMALIAN SEMEN".

Applicant: Council of Scientific and Industrial Research, Rafi Marg, New Delhi-110001, India, an Indian Registered Body incorporated under the Registration of Societies Act (Act XXXI of 1860) and MAX-PLANCK-GESellschaft ZUR FORDERUNG DER WISSENSCHAFTEN e.v., Residenzstrasse

I a, 8000 Munchen 2, West Germany, an organisation formed and existing under the laws of West Germany.

Inventor : Pushpa Mittra Bhargava, Ergam Reddy Shyam Prasad Reddy and Karl Heinz Scheit.

Application for patent no. 46/Del/79 filed on 25th January, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A process for the preparation of a proteinous substance containing novel proteins comprising separating the supernatant, which consists of seminal plasma, from mammalian semen, dialysing said supernatant against buffer solution, such as herein described, at pH of 5-9, treating the dialysed liquid with an anion exchanger, such as herein described treating the unadsorbed fraction obtained on said anion exchanger with a cation exchanger such as herein described, eluting the adsorbed material at the cation exchange step using buffer such as herein described and an ionic gradient such as herein described to obtain three to four fractions, the third fraction or both third and fourth fractions together as obtained on elution at the last step being dialysed and lyophilised in the manners such as herein described to obtain the crude product.

(Complete specification 16 pages. Drawing 2 sheets).

CLASS—9D.

151970.

Int. Cl. C 22 c. 39/00.

"IMPROVEMENTS IN OR RELATING TO A METHOD FOR OBTAINING IRON BASED ALLOYS ALLOWING IN PARTICULAR THEIR MECHANICAL PROPERTIES TO BE IMPROVED BY THE USE OF LANTHANUM".

Applicant : COMPAGNIE UNIVERSELLE D'ACETYLENE ET D' ELECTRO-METALLURGIE, a French body corporate, of 6, rue Pigalle, 75009 Paris, France.

Inventor : MARIO GORGERINO & DANIEL VIDEAU.

Application for patent no. 220/Del/79 filed on 2nd April, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(11 Claims)

A method for obtaining iron-based alloys in a manner as herein described characterized in the step of adding to the iron based alloy, during its production, at least 0.0001 and upto 2 weight percent of lanthanum alloying agent, such as lanthanum, its alloys or its compounds as herein described.

(Complete specification 21 pages. Drawing 2 sheets).

CLASS—4A1.

151971.

Int. Cl. B 63 C 17/00.

"DATA ACQUISITION AND PROCESSING APPARATUS FOR AIRCRAFT".

Applicant : RESEARCH ANALYSIS & DEVELOPMENT, INCORPORATED formerly of 4615-204 Northpark Drive, Colorado Springs, Colorado 80907, United States of America, but now of 8405 Lake view Drive, Colorado Springs, Colorado 80908, United States of America, a corporation organised and existing under the laws of the State of Florida, United States of America.

Inventors : Richard Errol Willes, Willie James Hones, Robert Antony Golobic & Thomas Stewart Rhoades.

Application for patent no. 301/Del/79 filed on 5th May, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims).

Apparatus for providing inertial, structural and aerodynamic data from the deflection of a flight vehicle structure and

induced by the forces acting on the structure, the apparatus including sensors mounted on said structure and operative to provide signals proportional to the direction and magnitude of the deflections of the structure associated therewith as a result of said forces, and a data acquisition system provided in the apparatus and connected to the sensors for detecting and isolating signals from selected sensors and converting said selected signals into inertial, structural and aerodynamic data.

(Complete specification 20 pages. Drawing 3 sheets).

CLASS—136E, 155D & 155E.

151972.

Int. Cl. B 29 d 7/00.

"PROCESS FOR THE PREPARATION OF RESINOUS PLASTIC SHEET MATERIAL AND SHEET MATERIAL SO PREPARED".

Applicant : RAVI MOHAN TAYAL, an Indian citizen, of 40 Bungalow Road, (Ashfaq Ullah Marg), Kamalanagar, Delhi-110007, India.

Inventor : RAVI MOHAN TAYAL.

Application for patent no. 302/Del/79 filed on 7th May, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(23 Claims).

A process for the preparation of a resinous plastic sheet at least one of the planar surfaces of which is irregularly roughened to present a contour of rough unevenness and which displays the characteristics of light transmission and diffusion as herein described, which comprises mechanically crumpling a sheet of polyester film of the kind such as herein described in order to crease it, spreading out the crumpled sheet of film within a casting mould without ironing out the creases, applying over the exposed surface area of such sheet a layer of liquid or semi-liquid catalysed polyester resin of the kind such as herein described which fills the raised and depressed areas of the creased sheet thereby causing the contacting surface of the resin to take on the contour of the creased sheet, and then conventionally curing such resinous layer to produce a sheet having one of its planar surfaces randomly roughened and the other smooth.

(Complete specification 31 pages. Drawing 4 sheets).

CLASS—32F r, g<sup>2</sup> (b)

151973.

Int. Class C 07 d 51/36.

"IMPROVED PROCESS FOR THE PREPARATION OF 2-ISOPROPYLAMINO PYRIMIDINE".

Applicant : EXPANSIA, a French company of 264, rue du Faubourg St-Honore, 75008, Paris, France.

Inventor : CHRISTIAN ASPISI & CLAUDE DEMOSTHENE.

Application for patent no. 352/Del/79 filed on 21st May, 1979.

Convention date 16th June, 1978/(187595)/.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(1 Claim).

A process for preparation of 2-isopropylamino pyrimidine consisting in reacting at room temperature, 2-amino pyrimidine with acetone in the presence of an organic carboxylic acid and a stoichiometric excess of an alkaline borohydride and recovering in a manner known per se the prepared 2-isopropylamino pyrimidine.

(Complete specification 4 pages).

CLASS—4B.

151974.

Int. Cl. B 64 c 27/04.

"HELICOPTER ROTOR".

Applicant. Societe Nationale Industrielle Aerospatiale, a French Company of 37, Boulevard de Montmorency, Paris, France.

Inventor. RENE LOUIS MOUILLE

Application for patent no. 385/Del/79 filed on 30th May, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5

(25 Claims)

A rotary-wing aircraft rotor comprising a rigid hub coupled to the root of each blade by means of a laminated spherical abutment and a resilient trailing return brace, comprising elastomeric shock-absorbing components, the rotor being characterised in that the trailing return braces each comprise a stack of metal plates alternating with plates of visco-elastic material and form a lead lag damper one end of each brace being coupled via a ball joint to the root of one blade and the other end being coupled by a ball joint to a place on the hub such that the brace is always slightly inclined to the corresponding blade and the centre of one ball joint is near the beat axis of the blade, which extends through the centre of the corresponding laminated spherical abutment.

(Complete specification 54 pages. Drawing 9 sheets)

CLASS—130B.

151975.

Int. Cl. C 22 b 11/00

"A METHOD OF RECOVERING GOLD AND SILVER VALUES FROM A SOLUTION".

Applicant. Crucible S.A., of 14 Rue Aldringen, Luxembourg, a company registered according to the laws of the Duchy of Luxembourg

Inventor. Raymond John Davidson & Vittorio Veronese.

Application for patent no. 591/Del/79 filed on 17th Aug 1979

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005

(6 Claims).

A method of recovering gold and silver values from a solution obtained as a result of the leaching of a gold and silver bearing ore with a cyanide solution and contacting the solution with activated carbon to adsorb the gold and silver values in solution, characterized in that prior to the contacting step the pH of the solution is lowered to a value below 8 and the contact time is such that all the gold and silver values are adsorbed on to the activated carbon

(Complete specification 7 pages. Drawing 2 sheets)

IND. CLASS—172 E +F

151976

Int. Cl. D 01 h 13/00.

"AN OPTO-ELECTRIC NON-CONTACT TYPE SENSING SYSTEM FOR YARN INSPECTION FOR USE ON WINDING MACHINES IN TEXTILE INDUSTRIES"

Applicant & Inventor. RAVINDRA BABURAO MARATHE

PROPRIETOR OF. MARATHE ENGINEERING INDUSTRIES, INDUSTRIAL ESTATES, MIRAJ, DISTRICT SANGLI, MAHARASHTRA, INDIA

Application No. 177/Bom/79 filed on June 14th, 1979

Comp. Spe. after Prov. left on Jan. 15, 1980

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch

5 Claims.

1. An opto-electric non contact type, sensing system for use, on winding machines used in textile industries for simultaneously inspecting, detecting, clearing, measuring, counting and

printing on card number and length of yarn faults/spinners doubles detected and cleared by the system comprises in combination.

I a power supply unit,

II a centralised control unit controlling respective amplifier, sensor-cutter assembly, and speed of ten, twenty, thirty, sixty or more spindles on a winding machine and having respectively,

- (a) a means for setting the yarn diameter,
- (b) means for setting the limit for removing thickness and length of yarn faults or spinners doubles,
- (c) means for setting the limit for removing the thickness and length of yarn faults and/or spinners doubles,
- (d) means for percentage setting control for yarn clearing,
- (e) means for controlling winding speed of spindles on winding machine varying from 300 meter/minute to 1300 or more, meter/minute,
- (f) electro-magnetic or electronic counter/printer means for simultaneous counting/printing on said the number and length of yarn faults/spinners doubles cleared by the sensing system,

III Opto-electric sensor cum-cutter assembly, each having a combination of:

- (a) an infra red light emitting diode or ordinary bulb as light source and silicon photo-sensing transistor as a detector,
- (b) a cutter operated by solenoid energised by discriminator for yarn cutting as soon as yarn fault is detected by said sensor,
- (c) said discriminator assembly comprising:
  - (i) an amplifier connected to said sensor,
  - (ii) a compensator connected to said amplifier, and
  - (iii) a sensitivity control means connected to said compensator

wherein said components are connected substantially in the manner as shown in circuit diagram of Figures-7 to 10 and is operated in the manner as shown in block diagram of Figures-5 and 6 of the drawings accompanying the provisional specification and wherein the signals produced by the yarn passing through said sensor assembly on winding machine amplified and checked for magnitude by said discriminator and as soon as any yarn faults are detected by said sensor said solenoid cutter gets instantly energised and cuts the yarn fault and the number of yarn faults/lengths so cleared by the systems are instantly counted and printed on a card by said counter and printer and wherein the equivalent resistance of the photo transistor varies with the variation in the thickness/thinness of yarn giving a signal corresponding to the electrical equivalent of the yarn variation, and wherein the actuation of the cutter is dependant upon the pre-setting of sensitivity control connected to said compensator of sensor assembly

Prov. Specn. 24 pages. Drg. 10 sheets.

Com. Specn. 26 pages. Drg. Nil

Ind. Cl. 63B

151977.

Int. Cl. H 02 k 37/00

AN EXTERNAL ROTOR ASSEMBLY FOR A MAGNETO.

Applicant. JAYA-HIND INDUSTRIES LIMITED A COMPANY INCORPORATED IN INDIA UNDER THE COMPANIES ACT 1956 OF INDIA HAVING ITS ADDRESS AT AKURDI PUNE 411 035 STATE OF MAHARASHTRA, INDIA.

Inventor. VEPA ACHYUTA MURARI

Application No. 176/Bom/80 filed on June 23, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

## 4 Claims.

1. An external rotor assembly for a magnetor comprising a ferrous yoke fixed to a non ferrous housing having an annular disc with an even number of lugs projecting therefrom, magnets (with or without their respective poleshoes) being fixed to the said yoke, the said lugs being adapted to hold securely between them the said ferrite magnets (with or without their respective poleshoes), and the said housing being adapted to be mounted on to the crankshaft of an engine.

Complete specn. 8 pages. Drawing 5 sheets.

CLASS—98L.

151978.

Int. Cl. F 24 j 3/00.

## A TRICKLING SOLAR STILL.

Applicant : JYOTI LIMITED, A COMPANY INCORPORATED UNDER THE PROVISIONS OF INDIAN COMPANIES ACT OF INDUSTRIAL AREA, P.O. CHEMICAL INDUSTRIES, BARODA-390 003, STATE OF GUJARAT, INDIA.

Inventors : (1) MYSORE SITARAMIAH RAMAPRASAD, (2) RAGUNATHAN VENKATRAMAN, (3) DR. BHAG CHAND JAIN.

Application No. 372/Bom/1980 filed on Nov. 28, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

## 3 Claims.

A trickling solar still comprising quadrilateral framework having a base of darkened semi-permeable membrane, placed over an inclined plane such as roofs; a glass plate being provided at the top of the framework, a water inlet being provided at the upper end of the framework for water to trickle over the semi-permeable membrane and a distilled water outlet being provided at the lower end of the framework, the hot water permeating through the semi-permeable membrane and falling on the roof collected through pipes at the lower end of the framework.

Complete Specification 4 pages. Drawing 1 sheet.

IND. CLASS—147C.

151979.

Int. Cl. G 11 b 9/00, 11/00.

IMPROVEMENTS IN OR RELATING TO TAPE RECORDERS TO RECORD/PLAY MULTICHANNEL IN A STANDARD COMPACT CASSETTE.

Applicant & Inventor : Mrs. MANGALA MADHUKAR CHAUDHARI. Mr. MADHUKAR GANGARAM CHAUDHARI. 11, SHREE KAILKA HOUSING SOCIETY, NEAR HOTEL V.I.P., OLD AGRA ROAD. AT AND POST-DIST. NASIK-422 022, MAHARASHTRA, INDIA.

Application No. 381/Bom/80 filed December 10, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

## 9 Claims.

A tape recorder to record/play multichannel in a standard compact cassette, characterised in that it comprises of a plurality of heads mounted in one single casing to provide multichannel recording/playing and a plurality of heads mounted in one single casing for erasing before recording, the said record/play heads and erase heads being connected to the electronic recording and amplifier circuit as shown in figure 11 of the accompanying drawing; there is provided a manual channel selector switch to select the preferred channel, so as to connect the said respective recording/playing head and erasing head to the said respective recording/playing head and erasing head to the said recording and amplifier circuit; means to vary the position of the recording/playing head to provide a further channel recording in the middle of the tape of said compact cassette with only one of the said recording/playing heads, mounted in the said single casing.

Complete Specn. 12 pages. Drgs. 4 sheets.

IND. CLASS—80K.

151980.

Int. Cl. B 01 d 35/00.

IMPROVEMENTS IN OR RELATING TO LIQUID FUEL FILTER AND A FUEL FILTER ASSEMBLY INCORPORATING THE SAME.

Applicant : INDIAN OIL CORPORATION LIMITED, AN INDIAN COMPANY INCORPORATED UNDER THE PROVISIONS OF THE COMPANIES ACT, 1956, HAVING ITS REGISTERED OFFICE AT 254-C, DR. ANNIE BESANT ROAD, PRABHADEVI, BOMBAY-400025, MAHARASHTRA, INDIA.

Inventors : (1) PREM DAYAL SRIVASTAV, (2) NIRANJAN RAGHUNATH RAJE, (3) DR. JOGINDER SINGH AHLUWALIA.

Application No. 403/Bom/80, filed on Dec. 31, 1980.

Appropriate office for Opposition Proceedings (Rule 4, Patent Rules 1972) Patent Office, Bombay Branch.

## 15 Claims.

1. An improved liquid fuel filter for fuel filter assembly for diesel engines comprising in combination a filter element, retaining means at one or both ends of the filter element, hollow retaining means provided at the core of the filter element; the filter element being arranged in a container which is detachably attached to the filter head and is provided with means for electrically heating the diesel oil passing through the filter element by an arrangement of providing a heating element around the filter element itself to prevent wax accumulation around the filter element at lower temperatures.

Complete Specification 19 pages. Drawing 9 sheets.

CLASS—31-A.

151981.

Int. Cl. H 03 k 3/00.

REFERENCE VOLTAGE GENERATOR DEVICE.

Applicants : HITACHI LTD. OF 5-1, 1-CHOME, MARU-NOUCHI, CHIYODA, TOKYO, JAPAN.

Inventors : 1. KANJI YOH, 2. OSAMU YAMASHIRO, 3. SATOSHI MEGURO, 4. KOICHI NAGASAWA, 5. KOTARO NISHIMURA, 6. HARUMI WAKIMOTO AND 7. KAZUTAKA NARITA.

Application No. 118/Cal/79, filed 8th February, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims.

A reference voltage generator device comprising first and second insulated gate field-effect transistors which have a difference of threshold voltage corresponding to a difference of Fermi levels of gate electrodes thereof, wherein both gate electrodes of said first and second insulated gate field-effect transistors are made of a substantially identical semiconductor material and different from each other in the conductivity types of the identical semiconductor material; and

means coupled to said first and second gate field-effect transistors for providing a reference voltage based on the difference of said threshold voltages of said first and second insulated gate field-effect transistors to be utilised as a reference voltage.

Comp. Specn. 122 pages. Drgs. 52 sheets.

CLASS—40F.

151982.

Int. Cl. B 01 f 3/00.

A METHOD OF PREPARING A MICROEMULSION.

Applicants : SOCIETE NATIONALE ELF AQUITAINE (PRODUCTION) OF TOUR AQUITAINE, 92400 COURBEVOIE, FRANCE.

Inventors : 1. JACQUES TELLIER, 2. CLAUDE CHAMBU, 3. JEAN-FRANCOIS COSTE AND 4. HENRI GRANGETTE.

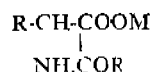
Application No. 1173/Cal/79 filed November 12, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A method of preparing a microemulsion comprising water and an organic compound, by mixing water, which optionally is saline water, with the organic compound,

a surfactant and a co-surfactant, wherein the surfactant comprises a salt of an N-acyl-α-amino acid having the formula :



wherein R is a straight or branched aliphatic radical containing 6 to 32 carbon atoms, RQ is a straight or branched aliphatic radical containing 1 to 6 carbon atoms and M is a cation of an alkali or alkaline earth metal, ammonium or an amine.

Compl. Specn. 24 pages. Drgs. Nil.

CLASS—39E & 56C.

151983.

Int. Cl. C 01 f 7/04, C 22 b 1/12.

METHOD FOR THE REMOVAL OF IMPURITIES FROM SODIUM ALUMINATE SOLUTION IN THE PRODUCTION OF ALUMINA.

Applicants : SUMITOMO ALUMINIUM SMELTING COMPANY LIMITED OF 15, KITAHAMA-5-CHOME, HIGASHI-KU, OSAKA, JAPAN.

Inventors : 1. KOICHI YAMADA, 2. TAKUO HARATO AND 3. HISAKATSU KATO.

Application No. 1324/Cal/79 filed December 19, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A method for the removal of impurities from a sodium aluminate solution in the production of alumina from bauxite in accordance with the Bayer process, which includes a purification step that comprises

adding sodium oxalate crystals and preferably at least one of the sodium salts of elements selected from vanadium and phosphorus, or double salts containing said sodium salts of elements selected from vanadium and phosphorus as seed to a sodium aluminate solution during the time period extending from after the precipitation step to before the digestion step, thereby precipitating crystals of organic substances such as herein described or both crystals of organic substances and crystals of inorganic sodium salts of vanadium and phosphorus as impurities from the sodium aluminate solution, separating the crystals from the sodium aluminate solution and recycling at least a part of them as seed to the purification step, characterized by : separating and removing by conventional method a portion of or all of the amount corresponding to an amount of the crystals newly precipitated in the purification step from the separated crystals and thereafter mixing the separated crystals with an aqueous medium in an amount to dissolve 10 to 50% by weight of the amount corresponding to an amount of the organic substances newly precipitated in the purification step; whereby making a slurry; and recycling the slurry as seed.

Compl. Specn. 60 pages. Drgs. 1 sheet.

CLASS—179A.

151984.

Int. Cl. B 65 d 51/14.

A METHOD AND APPARATUS FOR APPLYING A DIAPHRAGM TO A THIN-WALLED HOLLOW CONTAINER BODY.

Applicants : METAL BOX LIMITED OF QUEENS HOUSE, FORBURY ROAD, READING RG1 3JH, BERKSHIRE, ENGLAND.

Inventors : 1. WILLIAM GEORGE ROWLAND, 2. ARTHUR EDWARD WILLIAM MORGAN AND 3. MENNETH ROBERT CLARK.

Application No. 778 Cal/80 filed 4th July, 1980.

Convention date : 5th July, 1979 (23397/79) U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

In a method of applying, over an open end of a thin-walled, hollow container body, having a terminal curled rim about said open end, a diaphragm having an adhesive coating on its underside, the steps of :

- (a) gripping a planar web of material in a region surrounding a web portion to be cut therefrom to form said diaphragm,
- (b) whilst said web is so gripped, applying a forming tool to stretch said web portion to form it into a dish configuration comprising a central panel portion, a peripheral flange surrounding said central panel portion, and an upturned portion surrounding said central panel portion and joining the latter to the peripheral flange, whereby said upturned portion is unwrinkled,
- (c) after said step of stretching the web portion, further applying said forming tool so as to cut said web portion from said web and place it upon the open end of the container body so as to constitute said diaphragm, with said upturned portion with the open end of the container body and said peripheral flange and upturned portion in contact with said rim, steps (a) to (c) being performed in a single movement of said forming tool
- (d) transferring said container body with said diaphragm thereon to a position in alignment with a presser tool having a resiliently-deformable pad, and
- (e) applying said presser tool axially against the diaphragm with said pad in direct contact therewith, and exerting predetermined, substantially even pressure upon said flange and upturned portion whereby to cause them to adhere to, and conform with the underlying contours of said rim.

Compl. Specn. 20 pages. Drgs. 3 sheets.

CLASS—31A.

151985.

Int. Cl. H 03 k 3/00.

METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE WITH AT LEAST A PAIR OF INSULATED GATE FIELD-EFFECT TRANSISTORS.

Applicants : HITACHI LTD., OF 5-1, 1-CHOME, MARU-NOUCHI, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. KANJI YOH, 2. OSAMU YAMASHIRO, 3. SATOSHI MEGURO, 4. KOICHI NAGASAWA, 5. KOTARO NISHIMURA, 6. HARUMI WAKIMOTO AND 7. KAZUTAKA NARITA.

Application No. 950/Cal/81 filed August 26, 1981.

Divisional No: 118/Cal/79 (8th February, 1979).

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A method of manufacturing a semiconductor device with at least a pair of insulated gate field-effect transistors having semiconductor gate electrodes of different conductivity type, comprising the steps of :

preparing a semiconductor substrate having a semiconductor region of a first conductivity type extending to a major surface of said semiconductor substrate;

forming an insulating film over said major surface at a first portion of said semiconductor region and at a second portion of said semiconductor region, and forming a semi-



conductor layer over said insulating film overlying said first and second portions of the semiconductor region,

introducing an impurity of the first conductivity type into a first portion of said semiconductor layer overlying at said first portion of the semiconductor region except for into a second portion of said semiconductor layer overlying at said second portion of the semiconductor region, to provide the first conductivity type at that portion.

removing said semiconductor layer to form first and second semiconductor gate electrodes at said first and second portions of the semiconductor region respectively; and

Selectively introducing an impurity of a second conductivity type opposite to the first conductivity type into said first and second portions of the semiconductor region using said first and second gate semiconductor electrodes as masks to form source and drain semiconductor regions of the second conductivity type of opposite sides of each of said first and second gate electrodes.

Compl. Specn. 120 pages. Drgs. 52 sheets.

CLASS—31A.

151986.

Int. Cl. H 03 b 3/00.

#### REFERENCE VOLTAGE GENERATOR DEVICE.

Applicants : HITACHI LTD. OF 5-1, 1-CHOME, MARU-NOUCHI, CHIYODA-KU TOKYO, JAPAN.

Inventors : 1. KANJI YOH, 2. OSAMU YAMASHIRO, 3. SATOSHI MEGURO, 4. KOICHI NAGASAWA, 5. KOTARO NISHIMURA, 6. HARUMI WAKIMOTO AND 7. KAZUTAKA NARITA.

Application No. 953/Cal/81 filed August 26, 1981.

Division of application no. 118/Cal/79 filed February 8, 1979.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims.

A reference voltage generator device comprising :

An operational amplifier including first and second insulated gate field-effect transistors (IGFETs) which have a difference of threshold voltages corresponding to a difference of Fermi levels of gate electrodes thereof, both said gate electrodes of said first and second IGFETs being made of an identical semiconductor material and different from each other in the conductivity types of the identical semiconductor material, a gate of said first IGFET being used as an inverting input of said operational amplifier while a gate of said second IGFET being used as a noninverting input of said operational amplifier, an output signal in response to a potential difference between said inverting and non-inverting inputs derived from an output terminal of said operational amplifier, and said operational amplifier having an input offset corresponding to said difference of threshold voltages;

a feed back connection means connected between said inverting input and output terminals of said operational amplifier for applying an output signal at said output terminal of the operational amplifier to said inverting input terminal thereof; and

a reference connection means for applying a reference potential to said non-inverting input terminal of the operational amplifier, whereby the reference voltage based on the difference of said threshold voltages of said first and second insulated gate field-effect transistors in derived between said output terminal of said operational amplifier and said reference potential.

Compl. Specn. 121. Drgs. 52.

CLASS—47B.

151987.

Int. Cl. E 21 c 43/00.

FLUIDIZED BED GASIFICATION REACTOR AND METHOD OF PRODUCING THEREIN A COMBUSTIBLE GAS FROM A PARTICULATE CARBONACEOUS MATERIAL.

2—247GI/83

Applicants : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : GAURANG BHALCHANDRA HALDIPUR, Inventors : GAURANG BHALCHANDRA HALDIPUR.

Application No. 1078/Cal/81 filed September 26, 1981.

Appropriate office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 Claims.

A fluidized bed gasification reactor of the type wherein particulate carbonaceous material is fed into a vertically disposed vessel housing a combustive fluidized bed to produce a combustible product gas and ash, comprising a first vertical cylindrical tube extending upwardly into said vessel, and means for glosing a mixture of said particulate material and a transport gas upwardly through said first tube and into said vessel, characterized in that a second vertical tube (24) is concentric with, and spaced about, said first tube (22) so as to form an inner annulus (30) therebetween, means are provided for flowing an oxygen rich mixture of oxygen and steam upwardly through said inner annulus (30) and into said bed, a third vertical tube (26) is concentric with, and spaced about, said second tube (24) so as to form a second annulus (36), and means are provided for flowing an oxygen lean gaseous medium upwardly through said second annulus (36) and into said bed.

Compl. Specn. 17 pages. Drgs. 7 sheets.

CLASS—24, 24D, 24D<sub>1</sub>.

151988.

Int. Cl. B 61 h 11/4.

#### DYNAMIC/ FRICTION BRAKE BLENDING CONTROL SYSTEM.

Applicants : AMERICAN STANDARD INC., OF 40 WEST 40TH STREET, NEW YORK, NEW YORK 10018, UNITED STATES OF AMERICA.

Inventors : JOHN THOMAS PEKARCIK & RICHARD JOHN MAZUR.

Application No. 509/Cal/79 filed May 16, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims.

A dynamic/friction brake blending control system for a railway vehicle to which a brake command signal is connected, and brake blending control system comprising :

- (a) fluid pressure operated brake means for providing friction braking effort;
- (b) a control valve device operative responsive to said brake command signal for supplying fluid brake pressure to said brake means;
- (c) transducer means for providing a fluid pressure feedback signal representative of the degree of dynamic brake effort on said vehicle; and
- (d) a self-lapping relay valve device via which said fluid brake pressure is connected to said brake means comprising :
  - (i) a supply passage to which said fluid brake pressure is connected from said control valve device;
  - (ii) a delivery passage connected to said brake means; and
  - (iii) a piston valve assembly for controlling fluid pressure communication between said supply and delivery passage comprising :
    - (1) a control piston subject to said fluid brake pressure in said supply passage; and,

- (2) a dynamic brake feedback piston subject to said feedback signal for exerting a force on said piston valve assembly in opposition to the force exerted thereon by said control piston for modulating said fluid brake pressure delivered to said brake means in accordance with the effectiveness of said dynamic brake.

Compl. Specn. 12 pages. Drgs. 1 sheet.

CLASS—129P.

151989.

Int. Cl. B 23 b 29/32.

#### MACHINE-TOOL AND IN PARTICULAR A LATHE.

Applicants & Inventors : 1. DAVID NAUMOVICH TVERSKOI OF SARATOV, ULITS A PUSHKINA, 17/25, KV. 184, USSR; 2. ALEXANDR GRIGORIEVICH KASHIRSKY OF SARATOV, ULITS A SHELKOVICHNAYA, 184, KV. 73, USSR; 3. JURY NIKOLAEVICH SULIE, OF SARATOV, ULITS A SOVETSKAYA, 63, KV. 9, USSR; AND 4. DMITRY NIKOLAEVICH TROFIMOV OF SARATOV, ULITS A B. SADOVAYA, 54, KV. 148, USSR.

Application No. 682/Cal/79 filed July 3, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 claims.

A lathe, wherein its turret kinematically associated with a drive for its indexing, carries on its face a plurality of tool-holders and has a plurality of teeth on the peripheral cylindrical portion thereof, the number of said teeth corresponding to the number of the tool-holders, said teeth being adapted to interact with the actuating member of the mechanism for turret fixing in position; the turret indexing drive being essentially a reversible electric motor, whereas the turret fixing mechanism comprises a solenoid whose armature is associated, through a linkage, with the actuating member; provision being also made for a pickup adapted to monitor the turret teeth travelling through the zone of fixing, said pickup being electrically connected, through a switch, to the solenoid and motor control circuits.

Compl. Specn. 13. Drgs. 4.

CLASS—172C, 172E.

151990.

Int. Cl. D 01 h 5/00; 7/00.

METHOD AND APPARATUS FOR PRODUCING A DRAFTABLE, TWISTED ROVING CONSISTING OF STAPLE FIBRES WHICH IS WOUND ON A ROTATING PACKAGE WITH IMPARTED TWIST.

Applicant : MASCHINENFABRIK RIETER OF CH-8400 WINTERTHUR, SWITZERLAND.

Inventors : PETER NOVAK.

Application No. 712/Cal/79 filed July 11, 1979.

Convention date 11th July, 1978 (29409/78) U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A method of producing a twisted draftable roving comprising the steps of

supplying a continuous strand of parallel substantially twist free fibers from a delivery point of a rotating bobbin at a winding station at a predetermined speed;

forming the supplied strand into a freely rotating balloon about the bobbin between said delivery point and said winding station to impart a permanent twist in the strand therebetween;

superimposing a false twist in the strand between said delivery point and a second point upstream of said winding station to increase the twist in the strand between said points; and

thereafter eliminating said false twist in the strand between said second point and said winding station prior to winding of the strand onto the bobbin at said winding station wherein the distance between said second point and said winding station is smaller than the length at which the roving still containing the permanent twist slides apart under tension, whereby a twisted draftable roving is formed into a package on the bobbin.

Compl. Specn. 27 pages. Drgs. 5 sheets.

CLASS—199. /

151991.

Int. Cl. G 01 f 23/18.

#### LIQUID LEVEL SENSING APPARATUS.

Applicants : LUCAS INDUSTRIES LIMITED OF GREAT KING STREET, BIRMINGHAM B19 2XF, ENGLAND.

Inventors : DAVID GORDON WILLIAMS AND PAUL ANTHONY HARRIS.

Application No. 876/Cal/79 filed August 23, 1979.

Convention date 23rd August, 1978 (34265/78) U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims.

A liquid level sensing apparatus comprising a resistive probe having a high positive temperature co-efficient of resistivity, a circuit for applying either a controlled current or a controlled voltage to said probe for a predetermined test period, and means sensitive to a voltage signal developed as a result of current flow in the probe, said voltage sensitive means including a differentiating circuit so that the voltage sensitive means detects the rate of change of said voltage signal.

Compl. Specn. 15 pages. Drgs. 1 sheet.

CLASS—32E, 114F.

151992.

Int. Cl. C 14 c 3/00.

#### PREPARATION OF A TANNING AGENT.

Applicants : BASF AKTIENGESellschaft OF 6700 LUDWIGSHAFEN, FEDERAL REPUBLIC OF GERMANY.

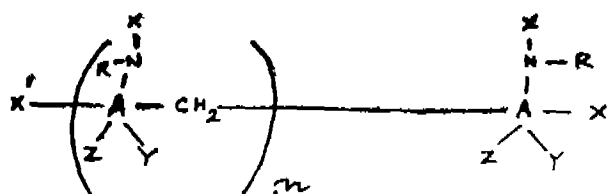
Inventors : DIETRICH LACH.

Application No. 1034/Cal/79 filed October 6, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

A process for the preparation of a tanning agent for the retanning of a mineral-tanned hide by condensing an aliphatic aldehyde of 1 to 4 carbon atoms, for from 1/2 to 24 hours in aqueous solution at 30-100°C and pH 1-8, with an aromatic sulfonic acid which contains an amino group and is of the general formula I shown in the accompanying drawing where X and X' are independently H, -CH<sub>2</sub>-SO<sub>3</sub>H or -CH<sub>2</sub>-OH, A is a benzene radical, Y and Z are independently H, -CH<sub>3</sub>-SO<sub>3</sub>H, or -CO<sub>2</sub>H, R is H or C 1-4 alkyl and n is from 0 to 10, with the proviso that one or more of the radicals X and X' contains a sulfonic acid group, optionally in the presence of at least one of the compounds such as herein described.



Compl. Specn. 18 pages. Drgs. 1 sheet.

CLASS—80F.

151993.

Int. Cl. B 01 d 33/02.

## ROTARY FILTER.

Applicants : KRAUSS-MAFFEI AKTIENGESSELLSCHAFT OF 2 KRAUSS-MAFFEI-STRASSE, MUNCHEN, WEST GERMANY.

Inventors : 1. WERNER STAHL, 2. EWE BREUER, 3. BERNHARD RICHTER, 4. FRANZ ALSTETTER, 5. FRANZ KRAPPMANN AND 6. HANS SCHUSTER.

Application No. 1117/Cal/79 filed October 26, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 20 Claims.

A rotary filter comprising a chamber, a rotor having axially spaced end walls and a substantially horizontal rotor axis, support bars extending axially between said end walls, filter cells supported on said bars and being axially displaceable thereon said filter cells being disposed radially within the rotor in such manner that on rotation of the rotor the cells sequentially dip into a filtrate liquid within the chamber, and filter conduits having a part at least extending radially of the rotor and communicating respectively with the filter cells.

Compl. Specn. 21 pages. Drgs. 4 sheets.

CLASS—134A.

151994.

Int. Cl. B 60 r 25/00, F 05 b 65/19.

## BONNET LOCKING DEVICE.

Applicants : USHA AUTOMOBILE & ENGINEERING LTD. OF 2, RAMGOPAL GHOSH ROAD, CALCUTTA-700 002, WEST BENGAL, INDIA.

Inventors : ASHOK KUMAR KHANNA, RADHA KANTA GHOSH AND MUNSHI MISTRY.

Application No. 1298/Cal/79 filed December 13, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims.

A bonnet locking device for automobiles such as cars, trucks, tempo-vans or the like against theft and picking of parts within the portion enclosed by a bonnet is characterised in that it includes in combining a vertical latch and lock barrel, the vertical latch projecting from the rear end of the lock barrel and the said barrel housing therein five tumblers adapted to be operated by a key to rigidly fix the said latch on the bonnet.

Compl. Specn. 5 pages. Drgs. 3 sheets.

CLASS—190B.

151995.

Int. Cl. F 02 c 7/18.

## AN EQUIPMENT FOR SEPARATING FOREIGN MATERIAL FROM A COOLING AIR AND COOLING A BLADE ASSOCIATED WITH A GAS TURBINE ENGINE.

Applicants : GENERAL ELECTRIC COMPANY OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : WALTER EMIL KOSTER, WILLIAM EDWARD LUDKE AND FRANK ANTHONY LASTRINA.

Application No. 1305/Cal/79 filed December 14, 1979.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

An equipment for separating foreign material from a cooling air and cooling a blade associated with a gas turbine engine wherein said blade is adapted to rotate about an engine centerline comprising :

3—247GI/83

Means provided for receiving pressurised air and delivering said air to said blade in a definite flow path, a rotating chamber disposed in said flow path and adapted to rotate about said centerline;

at least an inlet for introducing said air into said chamber, said inlet disposed at first radial distance from said centerline;

an outlet means provided for the discharge of said air from said chamber, said outlet means having an entrance disposed at a second radial distance from said centerline, said second radial distance being less than said first radial distance thereby utilising centrifugal force to prevent foreign particles in said air from entering said outlet means; and

a pair of turbine discs including flanges with a torque ring disposed between and at least partially enclosing said chamber disposed therebetween, said chamber bounded by a radially outer most wall disposed radially outwardly of said inlet, said wall including an aperture, said outlet means comprising at least an elongated hollow tubular element mounted within said aperture, said element having an entrance disposed radially inward of said inlet and an exit disposed radially outward of said inlet.

Compl. Specn. 12 pages. Drgs. 2 sheets.

CLASS—128K.

151996.

Int. Cl. A 61 b 17/12.

## A HEMOSTATIC PLASTIC CLIP.

Applicants : ETHICON, INC. OF 22 IN SOMERVILLE, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : ROBERT W. MERICLE.

Application No. 162/Cal/80 filed February 12, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A homostatic plastic clip comprising first and second leg members joined at their proximal ends by resilient hinge means and terminating at their distal ends in latch means, each leg member having a vessel clamping inner face in opposition to a vessel clamping inner face of the other leg member;

said first leg member terminating at the distal end thereof in a deflectable hook member extending from the inner face of said leg member, said hook member having an inner face spaced from and substantially parallel to the inner face of said leg member, said leg member including an outer raised cylindrical boss extending across the width of the leg member and spaced from the proximal end thereof;

said second leg member terminating at the distal end thereof in a surface adapted to deflect said hook member and enter said space between the inner face of said hook member and the inner face of said first leg member, said second leg member including an outer raised cylindrical boss extending across the width of the leg member and spaced from the distal and proximal ends thereof;

whereby when said first and second leg members are pivoted about said hinge means, the distal end of said second leg member deflects and engages the hook member of the first leg member to lock the clip in a closed position.

Compl. Specn. 15 pages. Drgs. 1 sheet.

CLASS—9D, 24B, 127F.

151997.

Int. Cl. B22 + 3/16, 5/00; 93.

## A METHOD OF PREPARING SINTERED IRON-BASED FRICTION MATERIAL.

Applicants : NAUCHNO-ISSLEDOVATELSKY INSTITUT POROSHKOV I METALLURGI BELORUSSKOGO POLITEKHNIЧЕСКОГО ИНСТИТУТА OF MINSK, ULITSА PLATONOVA, 41, USSR.

Inventors : 1. VALERY ANTSELEVICH GENKIN, 2. EVGENY MIKHAILOVICH KOMAROV, 3. EFIM IZRAILEVICH FISHBEIN AND 4. LEV MARKOVICH SHMAGIN.

Application No. 177/Cal/80 filed February 15, 1980.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 3 Claims.

A method of preparing a sintered iron based friction material comprising mixing in percentage by weight :

Copper	2 to 4
Nickel sulphate	3 to 5
graphite	5 to 9
calcium disilicide	3 to 10
silicon	0.4 to 2
Silicon carbide	0.2 to 1
iron disilicide	0.4 to 2
asbestos	2 to 4
chromium	1 to 5

the balance being iron, in a mixer in the presence of a neutral liquid such as a mineral oil, pressing under at least a pressure of 3 tonnes/Sm<sup>2</sup>, the mixture thus produced, in press moulds, sintering and simultaneously frithing the friction laps obtained by pressing, to a steel base under a pressure of 15 to 20 kg/cm<sup>2</sup> and at a temperature of the order of 1030°C for three hours.

Compl. Specn. 16 pages. Drgs. Nil.

### PATENTS SEALED

145681 150162 150363 150494 150495 150512 150513 150520  
150522 150529 150538 150540 150580 150624 150711 150759  
150772 150840 150851 150864 150865 150872

### RENEWAL FEES PAID

117300 117544 117570 117620 118194 118252 118810 123201  
123302 123569 123870 123950 124146 126055 127883 128278  
128337 128485 128568 129131 129132 132595 132759 132878  
132890 132930 135507 135623 135810 136395 136517 136522  
136788 137035 137837 137897 140061 141009 141177 141868  
142161 142495 142595 142825 142908 143015 143376 144104  
144119 144120 144133 144152 144827 144843 145111 145267  
145300 145588 145951 145994 146188 146207 146772 146853  
146890 146933 147176 147225 147809 147922 148714 149159  
149681 149992 150140 150142 150318

### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 153220. Jyoti Limited (an existing Company incorporated under the Companies Act) at P.O. Chemical Industries, Industrial Area, Baroda 390 003, Gujarat State, India. "Groundnut Thresher". 22nd June, 1983.

Class 1. No. 153221. Jyoti Limited (an existing Company incorporated under the Companies Act) at P.O. Chemical Industries, Industrial Area, Baroda 390 003, Gujarat State, India. "Oil Expeller". 22nd June, 1983.

Class 1. No. 153321. Siddons Industries Limited, a Victorian Company, of 58 Dougharty Road, Heidelberg West, 3081, Victoria, Australia. 'A Vice'. Reciprocity date is 24th March, 1983 (U.K.).

Class 1. No. 153222. Sanjay Rajkumar Agarwal, Indian National, having his office at C/o M/s Toyota Engineering works, Makani Industrial Estate, Unit No. 2, Gala No. 3, Bularam Pail Road, Village : Khari, Bhayandar (East), Dist. Thane, Maharashtra, India. "A Container". 23rd June, 1983.

Class 3. No. 153228. Smt. Pratibha R. Shinde, an Indian National, C/o Pratibha Enterprises, 1292 Ram-Vihar Shivajinagar, Pune 411 005, Maharashtra, India. "A Feeding Bottle". 29th June, 1983.

Class 3. No. 152959. Suryavindar Obhrai, an Indian National, of 10-C, Industrial Area, Govindpura, Bhopal 462 023, Madhya Pradesh, India. "A Dispenser". 4th April, 1983.

Class 3. No. 153099. Bhagwati Tirath Industries, 321, Todi Industrial Estate, N.M. Joshi Marg, Bombay 400011, Maharashtra, an Indian Partnership Firm. "Plastic Container". 17th May, 1983.

Class 3. No. 153181. M/s. C. K. Sen & Co. Limited, "Jabakusum House", 34, Chittaranjan Avenue, Calcutta-700 012, West Bengal, India, an Indian Company incorporated at Calcutta. "Containers made of Plastic, Bakelite and like substances". 7th June, 1983.

Class 3. No. 152748. Mahavir Products, Sati Industrial Estate, 2nd Floor, I.B. Road, Goregaon (East), Bombay-400 063, State of Maharashtra, India. "A Hanging Flower Basket". 5th February, 1983.

Class 3. No. 153019. Minni Trading Corporation, 5-B, Kanchan Villa, Goraswadi, Malad (West), Bombay 400064, Maharashtra, an Indian Partnership Firm. "Jar Cap". 19th April, 1983.

Class 3. No. 153025. Chinu Patel (an Indian National), trading as Nicol Traders, 872, East Park Road, Karol Bagh, New Delhi-110005, India. "Prismatic-Clouver" for Fluorescent Tube Fittings. 19th April, 1983.

Class 3. No. 152747. Mahavir Products, Sati Industrial Estate, 2nd Floor, I. B. Road, Goregaon (East) Bombay-400 063, State of Maharashtra, India. "A Wall Flower Basket". 5th February, 1983.

Class 3. No. 153317. S. S. Engineering Works, an Indian Proprietary concern, 75-76, Janta Market, Jhandewalan, Opp. Jhandewalan Mandir, New Delhi-110055, "Ball Costor". 28th July, 1983.

Class 3. No. 153312. Milton Plastics, a registered Indian Partnership firm, registered under the Indian Partnership Act, 1932, having Office at 202/203 Raheja Centre, 214 Nariman Point, Bombay- 400 021, Maharashtra, India. "Insulated Water Bottle". 28th July, 1983.

Class 3. No. 153016. Gajanan Sadashiv Ekbote, Indian National of 37/2C, Shankershet Road, Pune 411037, Maharashtra, India. "Suitcase". 18th April, 1983.

Class 3. No. 153311. Milton Plastics, a registered Indian Partnership firm, registered under the Indian Partnership Act, 1932, having Office at 202/203 Raheja Centre, 214, Nariman Point, Bombay 400 021, Maharashtra, India. "Multipurpose Container". 28th July, 1983.

Class 3. No. 152910. Rashmi Somabhai Patel, Indian National of No. 2 Shanker Smruti, 37, Marve Road, Malad (West), Bombay-400 064, State of Maharashtra, India. "A Plastic Container". 19th March, 1983.

Class 3. No. 152887. Jetking Electronics, 350, Lamington Road, Near Lamington Road Police Station, Bombay 400007, Maharashtra, an Indian Partnership Firm. "Transistorised Radio". 14th March, 1983.

Class 3. No. 153116. Navbharat Radio Agencies, 350, Lamington Road, Bombay 400007, State of Maharashtra, an Indian Partnership firm. "Transistorised Radio". 21st May, 1983.

Class 3. No. 153324. Milton Plastics, a registered Indian Partnership firm, registered under the Indian Partnership Act, 1932, having Office at 202/203, Raheja Centre, 214, Nariman Point, Bombay 400 021, Maharashtra, India. "Stool". 2nd August, 1983.

Class 8. No. 152737. H.A.G. Carpets Pvt Ltd., 143, Keshab Chandra Sen Street, Calcutta-700009, State of West Bengal, India, an Indian Company. "Carpet". 29th January, 1983.

EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS.

Nos. 147624, 147416, 147534, 147899, 147758, 147485.—Class-1.

Nos. 140545, 147732, 147486—Class-3.

EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS.

Nos. 141163, 141504—Class-3.

DR. K. V. SWAMINATHAN,  
Controller General of Patents, Designs  
and Trade Marks.

